

CURRENT STATUS OF ALL APPLICATION CLAIMS

1. (currently amended).
2. (currently amended).
3. (currently amended).
4. (original).
5. (currently amended).
6. (currently amended).
7. (cancelled).
8. (currently amended).
9. (cancelled).
10. (cancelled).
11. (cancelled).
12. (cancelled).
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23. (cancelled).
24. (cancelled).
25. (cancelled).
26. (cancelled).
27. (cancelled).

COMPLETE COPY OF ALL APPLICATION CLAIMS

1. (currently amended) A method of clarifying industrial laundry wastewater containing surfactants, fats, oil and grease (FOG), total petroleum hydrocarbon (TPH), biochemical oxygen demand (BOD), chemical oxygen demand (COD), total suspended solids (TSS), ionized metals and other contaminants, ~~without the use of additional coagulants, flocculents, coagulant aids, flocculent aids or sludge conditioning aids, and allowing for the correct and dewatering of the sludge in the wastewater~~ using a plate and frame sludge press, comprising consisting essentially of the steps of:

(a) adding to the wastewater an effective amount of a water dispersed cationic blended coagulant ~~[[blend]]~~ whose major components are of pDADMAC and ACH, at between 50 ppm and 700 ppm to break the emulsified bond in the wastewater and produce coagulated particles having sufficient mass and cationic charge to react with an anionic flocculent to be added thereafter;

(b) delaying any flocculent addition by at least a predetermined time to permit the cationic blended coagulant ~~[[blend]]~~ to substantially complete the coagulation of the particles in the wastewater in step (a);

(c) adding to the wastewater an effective amount of ~~an aqueous~~ a dry anionic flocculent which has been wetted with water, at between 5 ppm and 50 ppm, of sufficient molecular weight and charge density to react with the cationic charged coagulated particles to form flocculated waste particles of effective size to form sludge while leaving a disposable clarified water, thereby lowering the amount of sludge generated by at least 30% of that normally generated ~~using existing coagulation and flocculation techniques of adding additional coagulants, flocculents, coagulant aids, flocculent aids or sludge aids, including but not limited to, poly aluminum chloride, opi amine coagulant, bentonite clay, perlite, ferrous sulfate, ferric chloride diatomaceous earth and others;~~

(d) separating the sludge from the clarified water;

(e) passing the sludge to a plate and frame sludge press; ~~[[and]]~~

(f) dewatering the sludge by the press, thereby forming a disposable sludge cake;

and

(g) disposing of the sludge cake and the clarified water.

2. (currently amended) The method of claim 1 wherein the predetermined time in step (b) is at least two seconds.

3. (currently amended) The method of claim 1 wherein the cationic coagulant is essentially a blend [(is)] of 20% by solids weight pDADMAC and 20% by solids weight ACH.

4. (original) The method of claim 1 wherein the anionic flocculent is essentially poly(acrylamide-co-acrylate).

5. (currently amended) The method of claim 1 wherein the dry anionic flocculent is wetted to create dry, further comprising the step of:

~~(g) wetting the flocculent to a solution strength of between 0.05 and 0.5%~~
prior to the adding step (c).

6. (currently amended) The method of claim 1 wherein the predetermined time in step (b) is at least two seconds and the anionic flocculent is essentially poly(acrylamide-co-acrylate) added as a wetted solution having a strength of between 0.05 and 0.5% prior to adding in step (c).

7. (cancelled)

8. (currently amended) The method of claim 1 wherein the dry anionic flocculent is wetted to create dry, further comprising the step of:

~~(g) wetting the flocculent to a solution strength of 0.2% prior to the adding step (c).~~

9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (cancelled)

21. (cancelled)

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23. (cancelled)

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25. (cancelled)

26. (cancelled)

27. (cancelled)